Applicant: Laitinen, et al.
Application No.: 10/034,423
Art Unit: 3726

Remarks

Claims 1–18, and 27 remain pending in the application. In the Office Action dated Sept. 12, 2003, claims 8–10 were objected to as being dependent on a rejected base claim, but were otherwise indicated as being allowable. Claims 4, 8, 18, and 27 were objected to because the term "mold" was spelled "mould". The spelling of mold has been corrected. Claims 1–3, 15, 17, and 28 were rejected as anticipated by *Takada et al.* Claim 4 was rejected as obvious over *Takada et al.* in view of *Flasche et al.* Claims 5–7 were rejected as obvious over *Takada et al.* in view of *Koivukunnas* . Claims 11–14 were rejected as unpatentable over *Takada et al.* Claim 16 was rejected as being unpatentable over *Takada et al.* in view of *Tsujimura et al.* Claims 1–3, 11–15, 17, 18, and 27 were rejected as being unpatentable over *Heinz-Michael* in view of *Takada et al.* Claim 4 was rejected as unpatentable over *Heinz-Michael* in view of *Takada et al.* Claims 5–7 were rejected as unpatentable over *Heinz-Michael* in view of *Takada et al.* and further in view of *Koivukunnas.* Claim 16 was rejected as unpatentable over *Heinz-Michael* in view of *Takada et al.* and further in view of *Tsujimura et al.*

Claim 8 has been rewritten in independent form, placing claims 8–9 in condition for allowance as indicated by the examiner. Claim 13 has been rewritten in independent form and amended to include construction of the roll end of two materials or a steel powder and a powder material that conducts heat more poorly than steel. Constructing a roll end with said two materials is not suggested by the references and has the advantage of reducing heat flow to the region intended to be under a bearing.

Claim 1 has been amended to require a pipe system which has radial and axial portions joined by curved portions. This distinguishes over *Takada et al.* which does not have radial, axial and curved portions in a roll end having an axle journal with an end flange made of powdered metal. Forming the curved portions clearly differentiates the claims from the prior art which had flow passages created by boring. The advantage is simplicity in construction and lower resistance to flow.

Claims 18 and 27 have been similarly amended. Claims 2 and 27 also particularly

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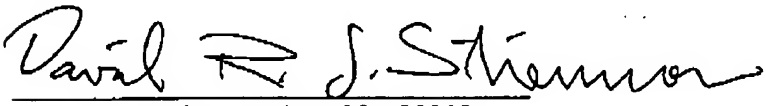
claim the flow passages extending through the axial journal further distinguishing over *Takada et al.* and the art of record.

Applicant believes that no new matter has been added by this amendment.

Applicant submits that the claims, as amended, are in condition for allowance. Favorable action thereon is respectfully solicited.

Respectfully submitted,



David R. J. Stiennon, Reg. No. 33212
Attorney for Applicant
Stiennon & Stiennon
P.O. Box 1667
Madison, Wisconsin 53701-1667
(608) 250-4870
Amdt2.res/amdt